

## PATENT APPLICATION TRANSMITTAL LETTER

TO THE COMMISSIONER OF PATENTS AND TRADEMARKS:  
Transmitted herewith for filing is the Patent Application of  
YI-LING WEN

for  
SKATEBOARD

Enclosed are:

- ☒ 5 sheets of drawings  
☐ an assignment of the invention to
- ☐ a certified copy of a \_\_\_\_\_ application  
☐ associate power of attorney  
☒ a verified statement to ascertain small entity status under 37 CFR § 1.9 & 1.27

## CLAIMS AS FILED

	NUMBER FILED	NUMBER EXTRA	RATE	FEE
BASIC FEE			\$690.00	\$690.00
TOTAL CLAIMS	3 -20	0	x 18	0
INDEPENDENT CLAIMS	2 -3	0	x 78	0
MULTIPLE DEPENDENT CLAIM PRESENT			\$260	0
NUMBER EXTRA MUST BE ZERO OR LARGER			TOTAL	\$690
If applicant is a small entity under 37 CFR 1.22, then reduce fee by 50%			SMALL ENTITY TOTAL	\$345
ASSIGNMENT			\$ 40	0
TOTAL PATENT APPLICATION FEE				\$ 345

- ☒ A check in the amount of \$ 345.00 to cover the filing fee is enclosed.
- ☒ The Commissioner is hereby authorized to charge and credit Deposit Account No. 18-2011 as described below. I have enclosed a duplicate copy of this sheet.
- ☐ Charge the amount of \$ \_\_\_\_\_ as filing fee.
- ☒ Credit any overpayment.
- ☒ Charge any additional filing fees required under 37 CFR 1.17
- ☒ for this filing, and/or
- ☒ for later presentation of extra claims.
- ☐ Charge any Patent Application processing fees under 37 CFR 1.17
- ☐ for this filing only, or
- ☐ during pendency of this Application
- ☐ Charge the issue fee set in 37 CFR 1.18 at or before mailing of the Notice of Allowance, pursuant to 37 CFR 1.317(b).

Date

Signature

7/13/2000

*Marton J. Doss*

07/17/00  
JCS5 U.S. PTO

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09/17/00

07/17/00

## INDEPENDENT INVENTOR(S)

VERIFIED STATEMENT (DECLARATION) CLAIMING SMALL ENTITY  
STATUS (37 CFR 1.9(f) and 1.27(b)) - INDEPENDENT INVENTOR

As a below named inventor, I hereby declare that I qualify as an independent inventor as defined in 37 CFR 1.9(c) for purposes of paying reduced fees under section 41(a) and (b) of Title 35, United States Code, to the Patent and Trademark Office with regard to the invention entitled Skateboard described in

Insert title of  
application

Check one,  
fill in if b)  
or c)

- a) ☒ the specification filed herewith.  
b) ☐ application serial no. \_\_\_\_\_ filed \_\_\_\_\_  
c) ☐ patent no. \_\_\_\_\_, issued \_\_\_\_\_

I have not assigned, granted, conveyed or licensed and am under no obligation under contract or law to assign, grant, convey or license, any rights in the invention to any person who could not be classified as an independent inventor under 37 CFR 1.9(c) if that person has made the invention, or to any concern which would not qualify as a small business concern under 37 CFR 1.9(d) or a nonprofit organization under 37 CFR 1.9(e).

Each person, concern or organization to which I have assigned, granted, conveyed, or licensed or am under obligation under contract or law to assign, grant, convey, or license any rights in the invention is listed below:

Check one

- a) ☒ no such person, concern, or organization  
b) ☐ persons, concerns or organizations listed below

\*NOTE: Separate verified statements are required from each named person, concern or organization having rights to the invention averring to their status as small entities. (37 CFR 1.27)

If "b", insert  
co-owners

NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
a) ☐ INDIVIDUAL b) ☐ SMALL BUSINESS CONCERN c) ☐ NONPROFIT ORGANIZATION

NAME \_\_\_\_\_  
ADDRESS \_\_\_\_\_  
a) ☐ INDIVIDUAL b) ☐ SMALL BUSINESS CONCERN c) ☐ NONPROFIT ORGANIZATION

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR 1.28(b))

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both under section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application, any patent issuing thereof, or any patent to which this verified statement is directed.

Insert each  
inventor

Yi-Ling WEN (WEN IS FAMILY NAME)  
NAME OF INVENTOR NAME OF INVENTOR NAME OF INVENTOR

Sign

Yi-Ling Wen  
Signature of Inventor Signature of Inventor Signature of Inventor

Date

July 10, 2000  
Date Date Date

# SKATEBOARD

## CROSS-REFERENCE TO RELATED APPLICATION

The present invention is a continuation-in-part (CIP) application of the co-pending U.S. serial No. 09/213/275, filed on December 17, 1998.

## BACKGROUND OF THE INVENTION

### 1. Field of the Invention

The present invention relates to a skateboard.

### 2. Description of Related Art

A first conventional skateboard in accordance with the prior art shown in Fig. 3 comprises an elongated solid body (40) made of plastic by means of an injection molding process, two support brackets (41) each secured on one of the two end portions of the elongated body (40) and each having two wheels (42) each rotatably mounted on one of the two end portions thereof. However, the solid body (40) is heavy, thereby decreasing its portability and increasing the cost of manufacturing. In addition, the solid body (40) lacks flexibility and elasticity, thereby reducing the manipulation and movement of the skateboard. Moreover, the elongated body (40) made of plastic cannot be reused when it is worn out.

A second conventional skateboard in accordance with the prior art shown in Figs. 4 and 5 comprises an elongated sheet-shaped body (50) made of an alloy, a reinforcing frame (52) secured on the bottom of the body (50), two support brackets (52) each secured to one of the two end portions of the reinforcing frame (51) and each having two wheels (54) each rotatably mounted on one of the two end portions thereof. However, the sheet-shaped body (50) is weak and is easily deformed when hit by foreign objects.

The present invention has arisen to mitigate and/or obviate the disadvantage of the conventional skateboards.

## SUMMARY OF THE INVENTION

In accordance with one aspect of the present invention, there is provided a skateboard comprising an elongated body including a top plate, a bottom plate and two opposite closed side plates each located between the top plate and the bottom plate, and a plurality of reinforcing ribs each longitudinally arranged in the elongated body and each supported between the top plate and the bottom plate.

The elongated body includes a support base formed on the mediate portion of the top plate thereof, and the skateboard comprises two strengthened frames each longitudinally arranged in the elongated body located adjacent to the support base, and each supported between the top plate and the bottom plate. Preferably, the elongated body, the reinforcing ribs and the strengthened frames are integrally made of an aluminum alloy.

The skateboard further comprises a foam core material inside the elongated body located between each of the strengthened frames and reinforcing ribs. The skateboard further comprises two flexible protective pads each secured on one of the two end portions of the elongated body.

Further benefits and advantages of the present invention will become apparent after a careful reading of the detailed description with appropriate reference to the accompanying drawings.

## BRIEF DESCRIPTION OF THE DRAWINGS

Fig. 1 is a perspective view of a skateboard in accordance with the present invention;

Fig. 2 is a front plan view in partial section of the skateboard as shown in Fig. 1;

Fig. 3 is a perspective view of a first conventional skateboard in accordance with the prior art;

Fig. 4 is a partial top plan view of a second conventional skateboard in accordance with

the prior art; and

Fig. 5 is a front plan view in partial section of the skateboard as shown in Fig. 5.

### DETAILED DESCRIPTION OF PREFERRED EMBODIMENT

Referring now to Figs. 1-2, a skateboard in accordance with the present invention comprises an elongated hollow body (10) including a top plate (11), a bottom plate (12) and two opposite closed side plates (13) each located between the top plate (11) and the bottom plate (12), two support brackets (20) each secured on one of the two end portions of the bottom plate (12) of the elongated body (10) by means of four bolts (15) and each having two wheels (22) each rotatably mounted on one of the two end portions thereof, and two flexible protective pads (30) each secured on one of the two end portions of the elongated body (10).

The skateboard further comprises a plurality of reinforcing ribs (14) each longitudinally arranged in the elongated body (10) and each formed between the top plate (11) and the bottom plate (12).

The elongated body (10) includes a support base (100) formed on the mediate portion of the top plate (11) thereof, and the skateboard further comprises two strengthened frames (141) each longitudinally arranged in the elongated body (10) adjacent to the support base (100), and each formed between the top plate (11) and the bottom plate (12). Bolts (15) respectively extend through the strengthened frames (141). The elongated body (10), the reinforcing ribs (14) and the strengthened frames (141) are integrally made of single moldable material, such as an aluminum alloy.

In such a manner, the elongated body (10) is made hollow, thereby greatly reducing the weight thereof so as to increase its portability and to decrease the cost of fabrication. In addition, the elongated body (10) is both flexible and elastic due to its hollow design. Further, the elongated body (10) is made very strong by means of the reinforcing ribs (14) and the

1 strengthened frames (141) such that it is not easily deformed when it hits or is hit by foreign  
2 objects. Moreover, the elongated body (10) is integrally made of an aluminum alloy such that  
3 it can be recycled after being worn out.

4 It should be clear to those skilled in the art that further embodiments may be made  
5 without departing from the scope and spirit of the present invention.

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1 **WHAT IS CLAIMED IS:**

2 1. A skateboard comprising:

3 an elongated body (10) including a top plate (11), a bottom plate (12) and two opposite  
4 closed side plates (13) each formed between said top plate (11) and said bottom plate (12);

5 a support base (100) formed on a mediate portion of said top plate (11)

6 two strengthened frames (141) each longitudinally arranged in said elongated body (10)  
7 formed adjacent to said support base (100), and each formed between said top plate (11) and  
8 said bottom plate (12);

9 a plurality of reinforcing ribs (14) each longitudinally arranged in said elongated body  
10 (10) and each formed between said top plate (11) and said bottom plate (12); and

11 at least one flexible protective pad (30) attached to said elongated body (10).

12 2. The skateboard in accordance with claim 1, wherein said elongated body (10), said  
13 reinforcing ribs (14) and said strengthened frames (141) are integrally made of an aluminum  
14 alloy.

15 3. A skateboard having respective pairs of wheels (22) rotatably mounted to  
16 corresponding support brackets (20), each support bracket (20) being coupled to said  
17 skateboard by a plurality of bolts (15), said skateboard comprising:

18 an elongated body (10) formed by a top plate (11), a bottom plate (12) and a pair of  
19 closed side plates (13) disposed on opposing sides of said body (10), each of said pair of  
20 closed side plates (13) being formed between said top plate (11) and said bottom plate (12);

21 a support base (100) formed on a mediate portion of said top plate (11);

22 a pair of strengthened frames (141) formed between said top plate (11) and said bottom  
23 plate (12) and each extending longitudinally within said elongated body (10) adjacent a  
24 respective opposing side of support base (100), the plurality of bolts (15) coupling the

1 support brackets (20) being passed through said strengthened frames (141); and  
2 a plurality of reinforcing ribs (14) formed between said top plate (11) and said bottom  
3 plate (12) and each extending longitudinally within said elongated body (10) in a portion  
4 thereof between a respective one of said strengthened frames (141) and a respective one of  
5 said pair of closed side plates, said elongated body (10), said pair of reinforcing ribs (14) and  
6 said pair of strengthened frames (141) are integrally formed in one piece of a single moldable  
7 material.



1    **ABSTRACT OF THE DISCLOSURE**

2        A skateboard includes an elongated body having a top plate, a bottom plate and two  
3    opposite closed side plates each located between the top plate and the bottom plate, a support  
4    base formed on the mediate portion of the top plate, a plurality of reinforcing ribs each  
5    longitudinally arranged in the elongated body and each supported between the top plate and  
6    the bottom plate, two strengthened frames each longitudinally arranged in the elongated body  
7    located adjacent to the support base, and each supported between the top plate and the bottom  
8    plate, and a foam core material inside the elongated body located between the strengthened  
9    frames and the reinforcing ribs.

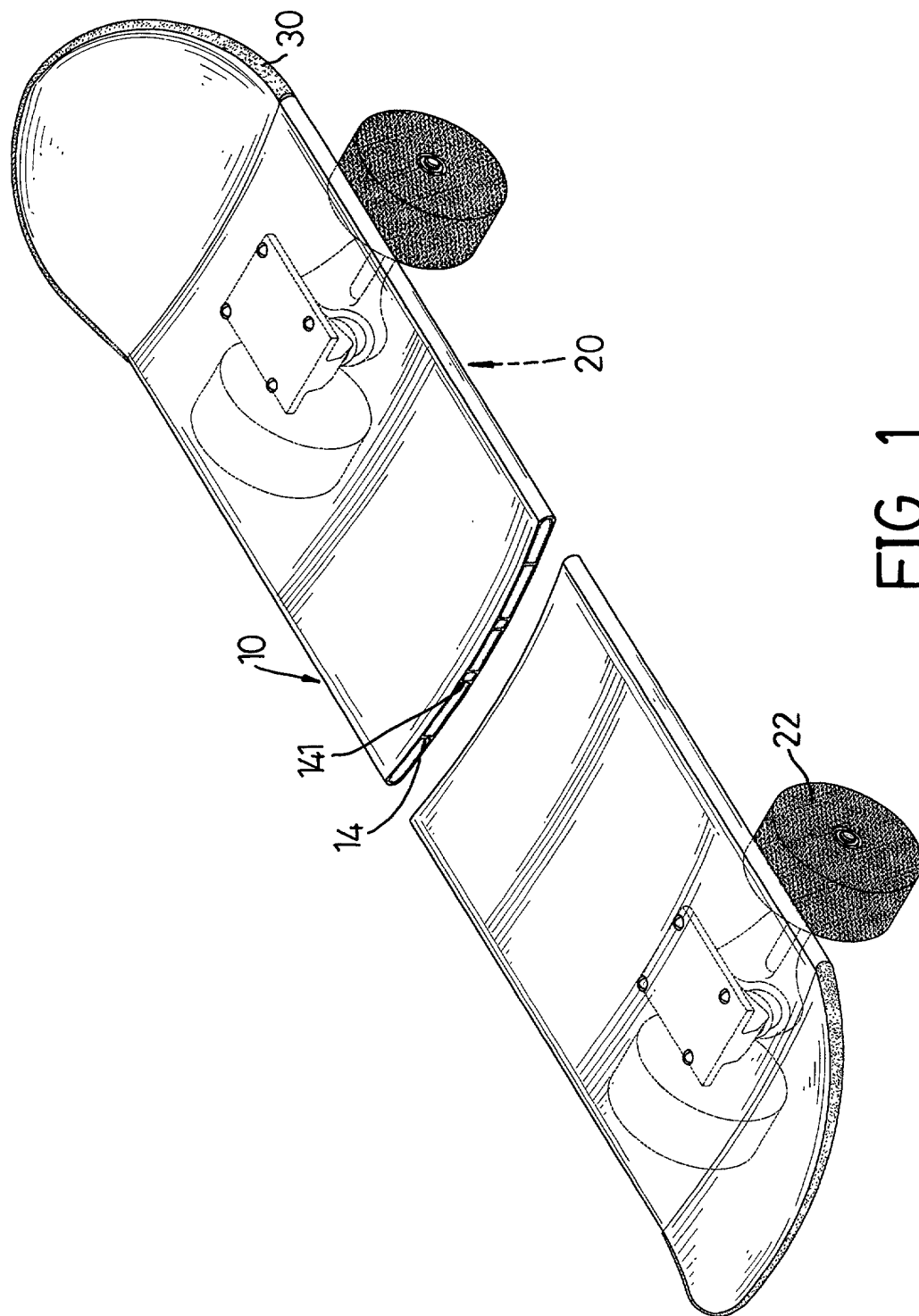


FIG. 1

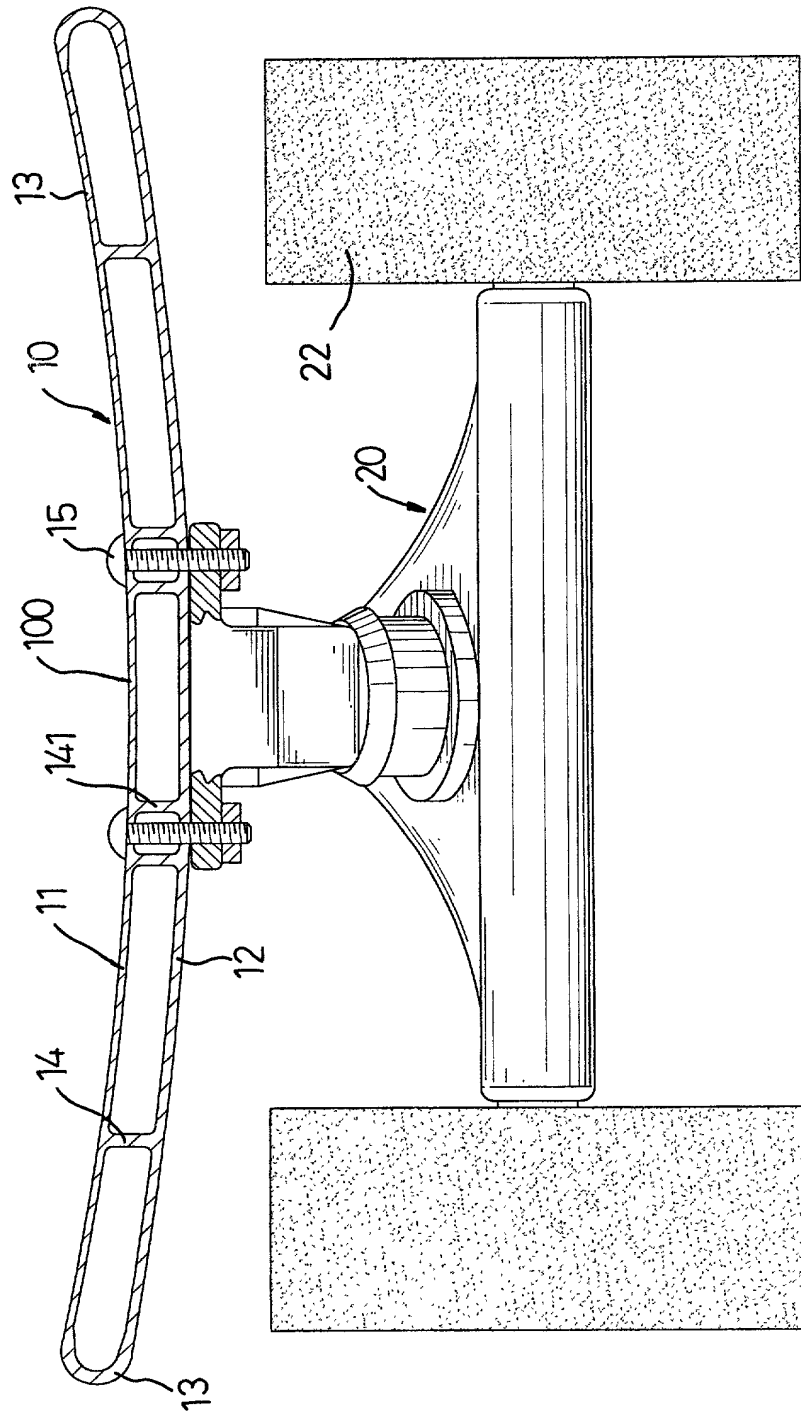


FIG. 2

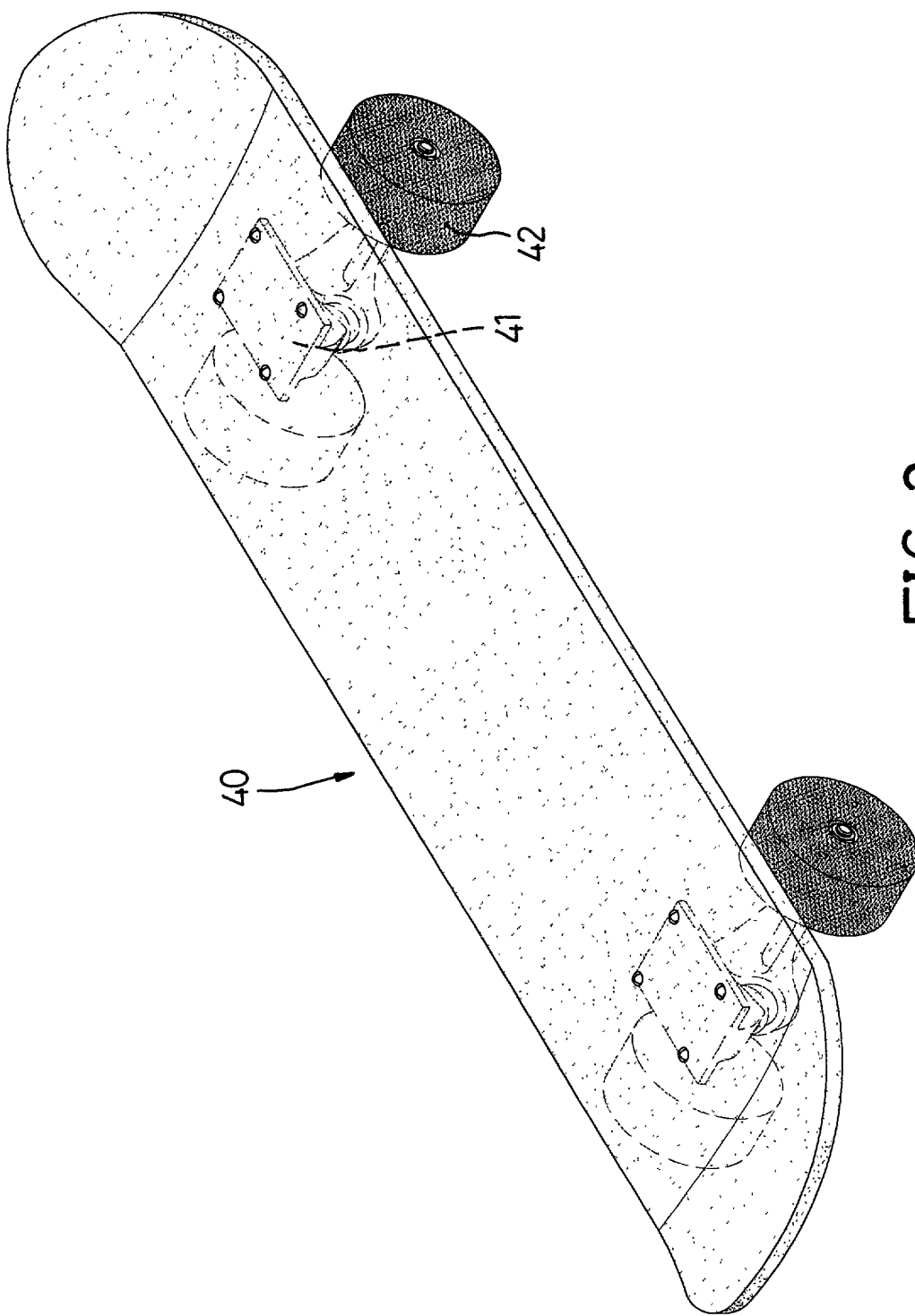
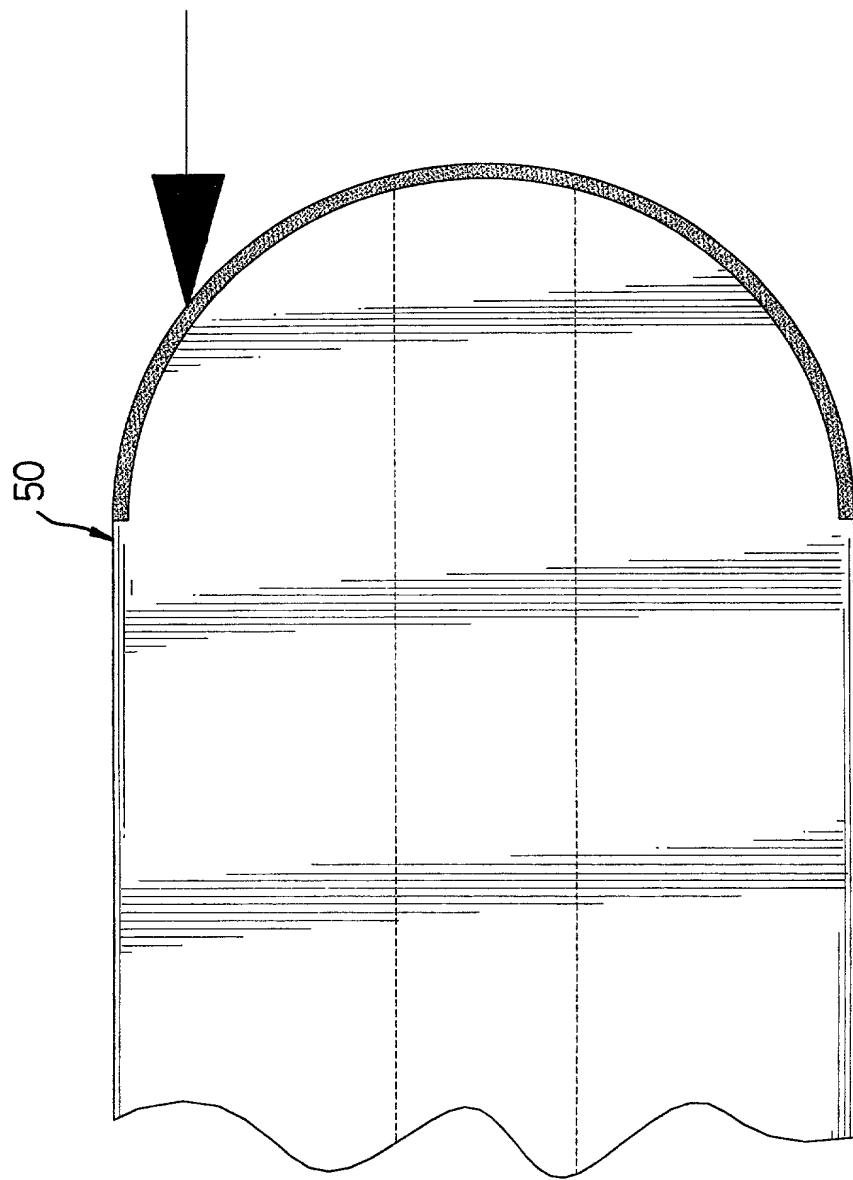


FIG. 3  
PRIOR ART



**FIG. 4**  
PRIOR ART

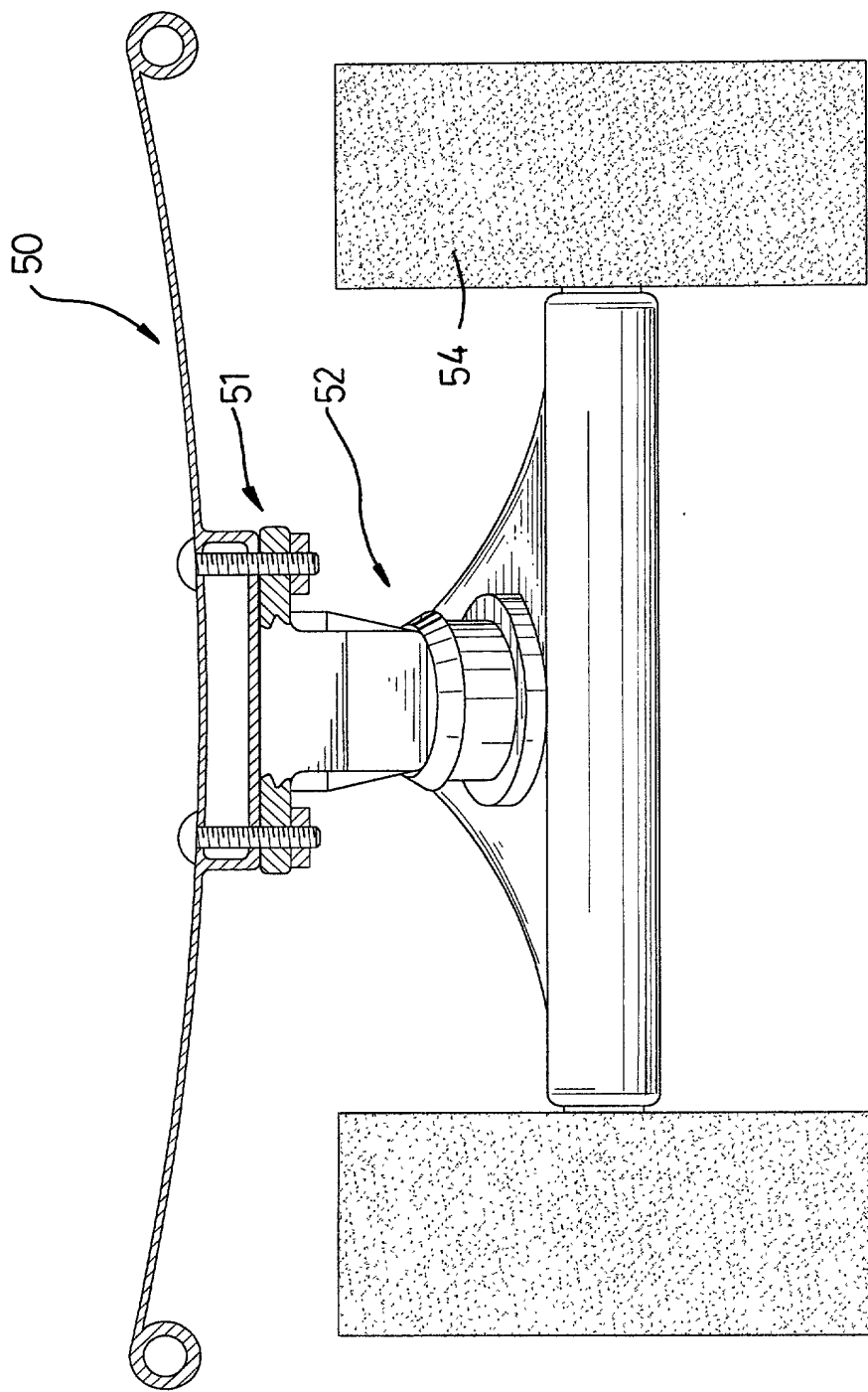


FIG. 5  
PRIOR ART

**DECLARATION FOR PATENT APPLICATION AND APPOINTMENT OF ATTORNEY**

As a below named inventor, I hereby declare that my residence, post office address and citizenship are as stated below next to my name; I believe that I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention (Design, if applicable) entitled: **Skateboard**

the specification of which (check one):

☒ is attached hereto.

☐ was filed on:

as Application Serial No.:

and (if applicable) was amended on:

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment(s) referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in **Title 37, Code of Federal Regulations, § 1.56**. I hereby claim foreign priority benefits under **Title 35, United States Code § 119** of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

PRIOR FOREIGN APPLICATION(S)			PRIORITY CLAIMED	
Number	Country	Day/Month/Year Filed	Yes	No

I hereby claim the benefit under **Title 35, United States Code, § 120** of any United States application(s) or PCT international application(s) designating The United States of America listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of **Title 35, United States Code, § 112**, I acknowledge the duty to disclose information which is material to patentability as defined in **Title 37, Code of Federal Regulations, § 1.56** which became available between the filing date of the prior application(s) and the national or PCT international filing date of this application:

Application Number	Filing Date	Status - Patented, Pending or Abandoned
09/213,275	December 17, 1998	Pending

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under **section 1001 of title 18 of the United States Code** and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

**POWER OF ATTORNEY** I(We) hereby appoint as my(our) attorneys, with full powers of substitution and revocation, to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Morton J. Rosenberg, Esq. 26049; David I. Klein 33253; Jun Y. Lee 40262

I(We) authorize my(our) attorneys to accept and follow instructions from **TAI E INTERNATIONAL PATENT & LAW OFFICE** regarding any matter related to the preparation, examination, grant and maintenance of this application, any continuation, continuation-in-part or divisional based thereon, and any patent resulting therefrom, until I(We) or my(our) assigns withdraw this authorization in writing.

Send correspondence to: Rosenberg, Klein & Lee

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DATE July 10, 2000		SIGNATURE <i>Yi-Ling WEN</i>	
Full Name of Joint Inventor			
Post Office Address	<input checked="" type="checkbox"/> Same as Residence	Citizenship	
Residence Address			
DATE		SIGNATURE	

☐ See following pages for additional joint inventors.

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